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## Patent claims

An optical conductor connector having an optical conductor piece fixed in the factory in a ferrule, the end of the optical conductor piece directed 5 outward being provided with a ground surface, and the end of the optical conductor piece directed inward projecting \from the ferrule and being connected by thermal welding to the inserted end of an optical conductor to be connected, 10 ferrule further being fixed in a ferrule holder, characterized in that the ferrule (2) with the fixed optical conductor piece (2a) can be detached from the ferrule holder (9) before the thermal welding of the optical conductor ends, in that the 15 ferrule (2) is pressed into a receptacle (18) of the ferrule holder (9) after the thermal welding, in that a basic housing (11) with an axially operating compression, spring (10) is arranged over the ferrule holder (9) in that a / crimping ring 20 for fixing the stress member (8) of the optical conductor (14) is pressed on the basic housing (11), in that an anti-kink guard (13) is applied over the cladding (17) of the optical conductor (14) to be connected, and over the end 25 of the basic housing (11), and in that an outer housing (1) with latching elements (20a) is drawn on as a cover.

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- 2. The optical conductor connector as claimed in claim 1, characterized in that the basic housing (11) is fixed on the ferrule holder (9) with the aid of latching elements (19).
- 35 3. The optical conductor connector as claimed in one of the preceding claims, characterized in that the ends of the optical conductor piece (2a) and of the optical conductor (6) to be connected are guided in a protected fashion with the welding

point (15) lying therebetween inside the longitudinal bore (9a) of the ferrule (9).

- 4. The optical conductor connector as claimed in one of the preceding claims, characterized in that the outer housing (1) is provided with latching elements (20a) which act correspondingly with those of connector receptacles.
- A method for connecting the optical conductor 5. 10 connector as claimed in one of the preceding claims to the end of an optical conductor to be connected, characterized in that firstly the antikink guard (13), the crimping ring (12) and the basic housing (11) are pushed onto the cladding 15 to (14)be optical conductor the (17)of in that the cladding (17) of the connected, optical conductor (14) is slotted by at least one longitudinal slot (17a) to the length required for the optical conductor connector, in that the end 20 (6) of the optical conductor (14) is freed from the coating  $(\pi)^{\frac{1}{2}}$  to the length required for the splicing, in/that the ferrule holder (9) with the compression / spring (10) mounted on the end is pushed onto the optical conductor (14), in that 25 the end of the optical conductor piece (2a) projecting from the ferrule (2), and the end (6) of the optical conductor (14) to be connected are connected to one another in a thermal optical conductor splicer (SG) known per se, in that 30 thereafter the ferrule (2) is pressed into the end-face receptacle (18) of the ferrule holder (9), in that the basic housing (11) is pushed thereover and fixed, in that the crimping ring (12) is pressed on over the stress member (8) of 35 the optical conductor (14), in that the anti-kink guard (13) is fixed on the basic housing (11), and in that the outer housing (1) is drawn on over the mounted connector unit.

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